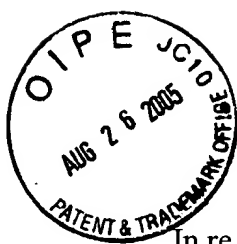


08-29-05

2634/B
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PATENT
Customer No. 22,852
Attorney Docket No. 9146.0001-00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
RAGHAVEN, Sreen) Group Art Unit: 2634
)
Application No.: 09/904,432) Examiner: WILLIAMS, Lawrence B.
)
Filed: July 11, 2001)
)
For: HIGH-SPEED COMMUNICATIONS) Confirmation No.: 9701
TRANSCEIVER)

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97(c)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), applicants bring to the attention of the Examiner the documents on the attached listing. This Information Disclosure Statement is being filed after the events recited in Section 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final action, Quayle action, or a Notice of Allowance. Under the provisions of 37 C.F.R. § 1.97(c), the Commissioner is hereby authorized to charge the fee of \$180.00 to deposit account 06-0916 as specified by Section 1.17(p).

Copies of the listed foreign and non-patent literature documents are attached. Copies of the U.S. patents and patent publications are not enclosed.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claims in the application and applicants determines that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

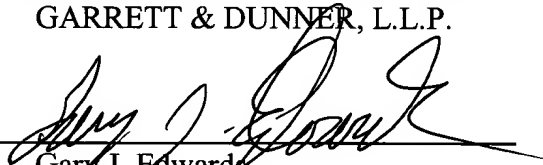
If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: August 24, 2005

By:


Gary J. Edwards
Reg. No. 41,008

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Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

2

Application Number

09/904,432

Filing Date

July 11, 2001

First Named Inventor

RAGHAVAN, Sreen

Art Unit

2634

Examiner Name

WILLIAMS, Lawrence B.

Attorney Docket Number

9146.0001-00

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS

| Examiner Initials | Cite No. ¹ | Document Number | Issue or Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-------------------|-----------------------|--|---|---|---|
| | | Number-Kind Code ² (if known) | | | |
| | | US-2004/0162023 | 08-19-2004 | Cho | |
| | | US-2004/0137941 | 07-15-2004 | Tanaka et al. | |
| | | US-2004/0121753 | 06-24-2004 | Sugar et al. | |
| | | US-2004/0106380 | 06-03-2004 | Vassiliou et al. | |
| | | US-2004/0091028 | 05-13-2004 | Aronson et al. | |
| | | US-2003/0054782 | 03-20-2003 | Snider | |
| | | US-2003/0017809 | 01-23-2003 | Garlepp et al. | |
| | | US-2002/0163974 A1 | 11-07-2002 | Friedman | |
| | | US-2002/0086651 | 07-04-2002 | Prentice et al. | |
| | | US-2002/0039052 | 04-04-2002 | Straub et al. | |
| | | US-6,804,497 | 10-12-2004 | Kerth et al. | |
| | | US-6,731,704 | 05-04-2004 | Kiyanagi | |
| | | US-6,529,303 B1 | 03-04-2003 | Rowan et al. | |
| | | US-6,292,559 B1 | 09-18-2001 | Gaikwad et al. | |
| | | US-6,259,745 B1 | 07-10-001 | Chan | |
| | | US-5,838,740 | 11-17-1998 | Kallman et al. | |
| | | US-5,822,368 A | 10-13-1998 | Wang | |
| | | US-5,285,474 A | 02-08-1994 | Chow et al. | |
| | | US-4,679,225 | 07-07-1987 | Higashiyama | |

Note: Submission of copies of U.S. Patents and published U.S. Patent Applications is not required.

FOREIGN PATENT DOCUMENTS

| Examiner Initials | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | Translation ⁶ |
|-------------------|-----------------------|---|--------------------------------|---|---|--------------------------|
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | | | |
| | | EP 0554056 B1 | 05-27-1998 | Fujitsu Limited | | |
| | | EP 0987830 A | 03-22-2000 | Mitsubishi Electric Corp. | | |
| | | WO 99/45683 | 09-10-1999 | Kestrel Solutions, Inc. | | |
| | | WO 00/51303 A | 08-31-2000 | Aware Inc. | | |

Examiner
SignatureDate
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

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| | |
|------------------------|-----------------------|
| Application Number | 09/904,432 |
| Filing Date | July 11, 2001 |
| First Named Inventor | RAGHAVAN, Sreen |
| Art Unit | 2634 |
| Examiner Name | WILLIAMS, Lawrence B. |
| Attorney Docket Number | 9146.0001-00 |

FOREIGN PATENT DOCUMENTS

| | | | | | |
|--|----------------|------------|----------------------|--|--|
| | WO 03/007564 A | 01-23-2003 | Myrica Networks Inc. | | |
| | | | | | |

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | Translation ⁶ |
|-------------------|-----------------------|---|--------------------------|
| | | CLARK, JR., G.C. and CAIN, J.B., Error Correction Coding for Digital Communications (Plenum Press, New York 1981) pp 253-264 | |
| | | International Search Report dated July 12, 2004, from corresponding PCT Application No. PCT/US04/014538. | |
| | | LEE, EDWARD A. and MESSERSCHMITT, DAVID G., Digital Communications (Kluwer Academic Publishers, 1988) pp 371-402 | |
| | | SKLAR, BERNARD, Digital Communications, Fundamentals and Applications (Prentice-Hall, Inc., 1988) | |
| | | UNGERBOECK, G., "Channel Coding with Multilevel/Phase Signals," IEEE Transactions on Information Theory, vol 1t-28, January 1982, pp 55-67 | |
| | | UNGERBOECK, G., "Trellis Coding Modulation with Redundant Signal Sets, Part I. Introduction." IEEE Communications Magazine, vol. 25, no. 2, Feb. 1987, pp. 5-11 | |
| | | | |

Examiner
SignatureDate
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